13/3,K/1 (Item 1 from file: 350) Links
Fulltext available through: Order File History
Derwent WPIX

0014414470 *Drawing available*
WPI Acc no: 2004-604538/200458
XRPX Acc No: N2004-478199

Vehicle mounted controller for air conditioner, analyses state of input voice command, if input voice command is unrecognizable by voice recognition unit, and accordingly changes color of icon currently displayed on display device

Patent Assignee: HIRAI M (HIRA-I); MATSUBARA T (MATS-I); MITSUBISHI DENKI KK (MITQ); MITSUBISHI ELECTRIC CORP (MITQ)
Inventor: HIRAI M; MATSUBARA T

Patent Family (5 patents, 34 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2004070703	A1	20040819	WO 2003JP15993	A	20031212	200458	B
JP 2004239963	A	20040826	JP 200326107	A	20030203	200458	E
US 20050125233	A1	20050609	WO 2003JP15993	A	20031212	200539	E
			US 2004506890	A	20040907		
EP 1591979	A1	20051102	EP 2003778912	A	20031212	200573	E
			WO 2003JP15993	A	20031212		
CN 1692406	A	20051102	CN 2003100325	A	20031212	200622	E

Priority Applications (no., kind, date): JP 200326107 A 20030203

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2004070703	A1	JA	27	8		
National Designated States,Original	CN US					
Regional Designated States,Original	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR					
JP 2004239963	A	JA	11			
US 20050125233	A1	EN			PCT Application	WO 2003JP15993
EP 1591979	A1	EN			PCT Application	WO 2003JP15993
					Based on OPI patent	WO 2004070703
Regional Designated States,Original	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					

Vehicle mounted controller for air conditioner, analyses state of input voice command, if input voice command is unrecognizable by voice recognition unit, and accordingly changes color of icon currently displayed on display device Alerting Abstract ...NOVELTY - A control unit (2) analyses the state of input **voice command**, if the input **voice command** is unrecognizable by a **voice**

recognition unit (5). The control unit changes the color of the icon currently displayed on the screen of an externally connected display unit (6), based on... ...ADVANTAGE - Improves **voice recognition** rate and increases control operation efficiency... ...5 **voice recognition** unit... **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**G10L-0015/00**... ...**G10L-0015/22**... ...**G10L-0015/28**... ...**G10L-0021/00** ...**G10L-0015/00**... ...**G10L-0021/00** Original Publication Data by Authority**Original Abstracts:**A vehicle mounted control apparatus includes **voice recognition** section (5) **for recognizing** a **voice** command **that** a **user** inputs by means of microphone (8) connected to outside; and a control section (2) that **analyzes** a cause of incapability of **recognition** of the **voice command** when the **voice command** cannot be **recognized** by the **voice recognition** section (5) **and changes** the display format of a screen of display device (6) connected to outside on the basis of results of the analysis... ... A vehicle mounted control apparatus includes **voice** recognition section for recognizing a voice command input by **an** voice input device; and a control section that analyzes **a** cause of incapability of **recognition** of the **voice** command when the voice command **cannot** be **recognized by** the **voice recognition section and** gives a **notice** on result **of the analysis**. ... ... A vehicle mounted controller comprising a **voice recognition** means for **recognizing** the **voice** instruction of a user inputted from an **externally-connected voice** input **means**, and **a** control section for **analyzing** the cause when a **voice is** unrecognizable by the **voice recognition** means and altering the display format of **the** screen of an externally-**connected display** means based on the results of analysis... ... reconnaissance vocale capable de reconnaitre une instruction donnee oralement par un utilisateur depuis un dispositif d'entree vocale connecte avec l'exterieur, et une partie **de commande** en mesure d'**analyser** la cause de la non-reconnaissance d'une voix par le dispositif de reconnaissance **vocale** et de modifier **le** format de l'ecran d'un dispositif d'affichage connecte avec l'exterieur compte tenu des resultats de l'analyse. **Claims:**A vehicle mounted control apparatus comprising:**voice recognition** section (5) **for recognizing** a **voice** command **that** a **user** inputs by means of **voice** input device (8) **connected** to outside; anda control section (2) that **analyzes** a cause of incapability of **recognition** of the **voice command** when **the voice command cannot be recognized** by **the voice recognition** section **(5)** and changes **a display** format of a screen of display device (6) connected to outside on the basis of a result of the analysis...

13/3,K/2 (Item 2 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0014304759 *Drawing available*
WPI Acc no: 2004-491846/200447
XRPX Acc No: N2004-388046
Electronic device e.g. instruction code generation apparatus displays text data in synchronization with output of audio data, in synchronous display unit
Patent Assignee: CASIO COMPUTER CO LTD (CASK)
Inventor: NAKAMURA T; TORIYAMA K

Patent Family (1 patents, 1 countries)

Patent Number	**Kind**	**Date**	**Application Number**	**Kind**	**Date**	**Update**	**Type**
JP 2004170444	A	20040617	JP 2002332511	A	20021115	200447	B

Priority Applications (no., kind, date): JP 2002332511 A 20021115

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 2004170444	A	JA	26	12	

Electronic device e.g. instruction code generation apparatus displays text data in synchronization with output of audio data, in synchronous display unit Original Titles:ELECTRONIC EQUIPMENT, **INSTRUCTION** CODE **GENERATING** DEVICE AND ELECTRONIC EQUIPMENT CONTROL PROGRAM, **INSTRUCTION** CODE **GENERATION** PROCESSING PROGRAM **Alerting Abstract** ...NOVELTY - A detector detects the pointer specified position of the text data displayed in a **display** unit (18). A matching unit matches the specified position of text data with audio data output by an audio output unit. A synchronous **display** unit (G) displays the text data is synchronization with output of audio data. ... **instruction** code **generation** apparatus; **instruction** code **generation** processing **program**; and **electronic** device control program... ... USE - Electronic device e.g. **instruction** code **generation** apparatus (claimed) for synchronizing output **of text data** with **audio** data in karaoke apparatus.... ... ADVANTAGE - The correlation information for performing synchronous regeneration of **audio** and **text** files, is **generated** easily.... ... DESCRIPTION OF DRAWINGS - The figure shows the text-audio synchronous **display** in the electronic device. ... ... 18 **display** unit ... ... G synchronous **display** screen **Title Terms** .../Index Terms/Additional Words: **DISPLAY**; **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**G10L-0013/00**... ...**G10L-0021/06** ...**G10L-0013/00**... ...**G10L-0021/00**

13/3,K/3 (Item 3 from file: 350) Links
Fulltext available through: Order File History
Derwent WPIX

0013891306 *Drawing available*
WPI Acc no: 2004-070524/200407
XRPX Acc No: N2004-056809
Voice control system for strobe light, has output unit to extract recognition word corresponding to code, and generate message utilizing extracted recognition code and message is notified to user through display
Patent Assignee: DENSO CORP (NPDE); NIPPONDENSO CO LTD (NPDE); TATEISHI M (TATE-I); YOKOI K (YOKO-I)
Inventor: TATEISHI M; YOKOI K

Patent Family (4 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030235276	A1	20031225	US 2003430280	A	20030507	200407	B
JP 2004029270	A	20040129	JP 2002183927	A	20020625	200410	E
JP 3702867	B2	20051005	JP 2002183927	A	20020625	200565	E
US 7027565	B2	20060411	US 2003430280	A	20030507	200626	E

Priority Applications (no., kind, date): US 2003430280 A 20030507; JP 2002183927 A 20020625

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20030235276	A1	EN	15	11		
JP 2004029270	A	JA	12			
JP 3702867	B2	JA	12		Previously issued patent	JP 2004029270

Voice control system for strobe light, has output unit to extract recognition word corresponding to code, and generate message utilizing extracted recognition code and message is notified to user through display Alerting Abstract ...system (10) has a function execution unit to execute a function corresponding to a command code from the unit. A message output unit extracts a **recognition word** corresponding to a **word** code from a storing unit and **generates** a **message** that utilizes the extracted **recognition** code. The **generated message** is notified to a user through a **display** (4) or a **speaker** (5). ...ADVANTAGE - The system enables the uttered speech by the user to be properly included in the notified **message**, such that the user is prevented from misunderstanding that the uttered **speech** might be mis-**recognized**. ... ...4 **Display** ... ...8 Yaw rate sensor (10) **Voice recognition** system **Title Terms** .../Index Terms/Additional Words: **DISPLAY Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G10L-015/00**... Main ...**G10L-015/22**... ...**G10L-015/28** Original Publication Data by Authority**Original Abstracts:**A **voice recognition** unit **recognizes a recognition word code** corresponding **to a speech** uttered by a **user** along with a command code for executing a function of a control object. A function execution unit executes a function corresponding to the command code from the **voice** recognition unit. A message outputting unit extracts a recognition word corresponding to the recognition word code from **a recognition** word storing unit, **and generates** a message properly **utilizing** the extracted **recognition** word. The **generated message** is notified **to the** user via a display or a **speaker**, so that the **user** can confirm that the uttered **speech** is adequately **recognized**. A **voice recognition** unit **recognizes** a **recognition word** code corresponding **to a speech uttered** by **a user** along with a command **code** for executing a function of a control object. A function execution unit executes a function corresponding to the command code from the **voice** recognition unit. A message outputting unit extracts a recognition word corresponding to the recognition word code from a recognition word storing unit, and **generates** a **message** properly utilizing **the** extracted recognition **word**. The **generated message** is notified to the **user via** a **display or** a **speaker**, so that the user can confirm that the **uttered speech** is adequately **recognized.** >**Claims:What is claimed is:1. A voice control system comprising:voice inputting means for inputting a speech uttered by a user;recognizing means for recognizing the uttered speech as a speech content;command code storing means for storing, as a pair, the speech content and a command code used for executing a function of a control object, wherein the command code is correlated with the speech content and has one-to-one or one-to-many correspondence with the speech content;extracting means for extracting, from the command code storing means, the command code based on the speech content as which the uttered speech is recognized when the speech is inputted;controlling means for executing the function based on the... ... message generating means for generating a message corresponding to the executed function when the function is executed through the command code; andnotifying means for notifying the generated message,wherein the message generating**

means generates the message by utilizing the recognized speech content in a case that the command code has one-to-many correspondence with the speech content.What is claimed is:1. A voice control system comprising:voice inputting means for inputting a speech uttered by a user;recognizing means for recognizing the uttered speech as a speech content;command code storing means for storing, as a pair, the speech content and a command code used for executing a function of a control object, wherein the command code is correlated with different speech contents for the uttered speech and the command code has one-to-one or one-to-many correspondence with the speech content;extracting means for extracting, from the command code storing means, the command code based on the speech content as which the uttered speech is recognized when the speech is inputted;controlling means for executing the function based on the command code extracted by the extracting means;message generating means for generating a message corresponding to the executed function when the function is executed through the command code; andnotifying means for notifying the generated message,wherein the message generating means generates the message by utilizing the recognized speech content in a case that the command code correlates to different speech contents.>

13/3,K/4 (Item 4 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0013649911 *Drawing available*
WPI Acc no: 2003-745933/200370
XRPX Acc No: N2003-597616
Software code comment management system performs browsing, editing, grouping and updating of code comments input as voice message by programmer and establishes correlation between code comments and related comment objects
Patent Assignee: MAXIMA BLUE LTD (MAXI-N)
Inventor: BLUVBAND M

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030163323	A1	20030828	US 200279524	A	20020222	200370	B
US 6993487	B2	20060131	US 200279524	A	20020222	200610	E

Priority Applications (no., kind, date): US 200279524 A 20020222

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20030163323	A1	EN	14	6	

Original Titles: Software code comments management method and system supporting **voice recognition** technology... ...Software code comments management method and system supporting **speech recognition** technology **Alerting Abstract** ...NOVELTY - A multimedia user interface module (100) has **speech recognition** unit (102) that translates programmer's **voice** messages into code comments. A management module (101) performs **browsing**, editing, grouping and updating of the code comments and establishes correlation between code comments and related comment objects. The comment data and control information are... ...USE - For managing comments of software code using **voice recognition** technology... ...102 **speech recognition** module... **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**G10L-0013/04**... ...**G10L-0015/20**... ...**G10L-0015/22**... ...**G10L-0015/26** ...**G10L-0013/00**... ...**G10L-0015/00**... ...**G10L-0015/00** Original Publication Data by Authority...**Original Abstracts:**code and compose voice comments. These comments, divided into help comments, test items and variable comments, are subsequently recorded, stored, analyzed, prescribed and displayed using **text** to **speech** and **voice recognition software**. **It is therefore** possible to define test cases, execute **vocal** follow up on **changes**, and listen to comments and variables values, while running a program... ... time and run time. A code writer is hereby enabled to simultaneously write code and compose voice comments. These comments, divided into help comments, test **items** and variable comments, are subsequently recorded, stored, analyzed, prescribed and displayed using **text** to **speech** and **voice recognition** software. It is **therefore** possible **to** define **test cases**, execute **vocal** follow up on changes, and listen to comments **and** variables values, while running a program **Claims:**What is claimed is:**1**. A software code comments management system operating with and within a software code development environment and able to **interact** dynamically with the code segments, variables and characteristics, **supported** by **voice recognition** technology comprising:a multimedia user interface that **includes a graphic** user **interface** that responds to **voice** commands;a comment management **component**, **for managing** the comments;a **speech recognition** module;a database system for storing system data and control information; andan **output mechanism** for outputting the comments or comments-code **interaction** results... ... code development environment and able to interact dynamically with the code segments, variables and characteristics, the system comprising:a multimedia user interface that includes a **graphic user interface** that responds to **voice** commands;a comment management **component**, for managing the comments;a **speech recognition** module operatively connected to said multimedia user interface;a database system for storing **system data and** control information; and**an** output mechanism for outputting the comments or comments-code **interaction** results;wherein said comment **management component** enables classifying comments into comments categories from the group comprising of: Help comments, Testing comments and Watch variable comments;wherein said testing comments are used... ... operating with and within a software code development environment and able to interact dynamically with the code segments, variables and characteristics, the system comprising:a **multimedia** user interface that includes a **graphic user interface** that responds **to voice commands**;a comment management component for **managing** a plurality of comments;a **speech recognition** module operatively connected to said multimedia user interface;a database system for storing system data and control information; andan output mechanism for outputting the comments or comments-code **interaction** results;wherein said comment management component enables classifying comments into comments **categories from the** group comprising of: **Help** comments, Testing comments and Watch variable comments;wherein said watch variable comments enable follow up of **variables and** expressions values including:adding to a comment at least one reference to code variables, to be displayed for tracing and debugging;adding a description for...

13/3,K/5 (Item 5 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0013475794 *Drawing available*
WPI Acc no: 2003-567586/200353
XRPX Acc No: N2003-451250
Dynamic display method for speech recognition system, involves providing single floating window for displaying dynamically varying frames of speech recognition system state information to user
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: GOMEZ F

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030088413	A1	20030508	US 2001992816	A	20011106	200353	B
US 7099829	B2	20060829	US 2001992816	A	20011106	200657	E

Priority Applications (no., kind, date): US 2001992816 A 20011106

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20030088413	A1	EN	9	4	

Dynamic display method for speech recognition system, involves providing single floating window for displaying dynamically varying frames of speech recognition system state information to user Original Titles: Method of dynamically displaying **speech recognition** system information... ...Method of dynamically displaying **speech recognition** system information **Alerting Abstract** ...NOVELTY - The method involves providing a floating window for displaying frames of **speech recognition** system state information to a user. Frames are varied according to trigger events detected in **speech recognition** system. In responsive to said trigger event, the float window is dynamically updated. A single graphical user interface is configured to **display** all context dependent frames. DESCRIPTION - An INDEPENDENT CLAIM is included for a single graphical user interface configured to **display** all context dependent frames of selected items of **speech recognition** system... ...USE - Used for **speech recognition** systems... ...ADVANTAGE - Dynamic **display** method reduces screen clutter arising from the use of multiple windows while still providing users with needed information by **interactive navigation**. ... ...100 **Speech recognition** system (SRS... ...110 **Speech recognition** engine **Title Terms** .../Index Terms/Additional Words: **DISPLAY**; **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**G10L-0011/00**... ...**G10L-0015/22**... ...**G10L-0021/00** ...**G10L-0011/00**... ...**G10L-0015/00**... ...**G10L-0021/00** Original Publication Data by Authority**Original Abstracts:** The present invention provides a method of dynamically displaying **speech** recognition system information. **The method** can include providing a single floating window for displaying frames of **speech recognition** system state **information to** a user. The frames can be varied according to trigger events detected in the **speech recognition** system. Each **frame can** differ from others of the frames according to the **speech recognition** system state **information**. ... ... The present invention provides a method of dynamically displaying **speech recognition** system information. The method can include providing **a single** floating window for displaying frames of **speech recognition** system state information to a user. The **frames can** be varied according to trigger events detected in the **speech recognition** system. Each frame can differ from others **of the** frames according to the **speech recognition** system state information. **Claims:** What is claimed is: **1**. A method of dynamically displaying **speech recognition** system information comprising: providing a single floating **window for** displaying frames of **speech recognition** system state information to a user; and varying said **frames according** to trigger events detected in said **speech recognition** system, wherein each said frame differs from others of said frames **according to** said **speech recognition** system state information. What is claimed is: 1. A method of dynamically displaying **speech recognition** system information comprising: providing a single floating window for displaying frames of **speech recognition** system state information to a user;performing an **empirical analysis** of a plurality of user **actions** and inputs to **determine** a plurality of different **trigger events** that cause operating states of the **speech recognition** system to change **in** response thereto; anddynamically updating **said** single floating window **for** individually and sequentially displaying said frames at different times, each individual **display changing** in response to said different trigger events detected in said speech recognition system, wherein each said individually displayed frame differs from others of said frames... ... recognition system state information, wherein the frames variably and individually displayed in the single floating window include a frame containing a list of valid speech **recognition** commands for a current **speech recognition** system state and a frame containing a list of alternative **text** selections for a previously spoken **word** for which a **speech-recognition operation has** been performed, wherein each **variably and** individually displayed frame is uniquely associated with a specific trigger **event**, and wherein at least one **of** said trigger events **is an** automatic user-independent event.

13/3,K/6 (Item 6 from file: 350) Links
Fulltext available through: Order File History
Derwent WPIX

0013422841 *Drawing available*
WPI Acc no: 2003-513434/200348
Related WPI Acc No: 2007-716894
XRPX Acc No: N2003-407604
Control device or enabling user to communicate with computer, has prompt unit for using speech input data to provide prompt to user to assist user in formulating spoken command that initiates use of access data
Patent Assignee: CANON KK (CANO); JOST U H (JOST-I); SHAO Y (SHAO-I)
Inventor: JOST U H; SHAO Y

Patent Family (5 patents, 3 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030120494	A1	20030626	US 2002321449	A	20021218	200348	B
JP 2003241880	A	20030829	JP 2002370526	A	20021220	200366	E
GB 2388209	A	20031105	GB 200130488	A	20011220	200374	E
GB 2388209	B	20050713	GB 200130488	A	20011220	200547	E
US 7212971	B2	20070501	US 2002321449	A	20021218	200730	E

Priority Applications (no., kind, date): GB 200130488 A 20011220; US 2002321449 A 20021218

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20030120494	A1	EN	14	10		
JP 2003241880	A	JA	49			

...**Original Titles:**Control apparatus for enabling a user to communicate by **speech** with a **processor** -controlled apparatus **Alerting Abstract** ...NOVELTY - A prompt unit uses speech input data to provide prompt to a user to assist the user in formulating spoken **command** that initiates use of access data, when **determined** location of access data and speech input data within a screen corresponding to a location defined by location data. ... with prompt to assist user in formulating the word or words to be spoken when user directs his or her attention to a location of **display** screen at which speech input is possible... **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G10L-021/00** Main ...**G10L-0011/00**... ...**G10L-0015/00**... ...**G10L-0021/00**... ...**G10L-0021/00**... ...**G10L-0021/06** ...**G10L-0011/00**... ...**G10L-0015/00**... ...**G10L-0021/00**... ...**G10L-0021/00**... ...**G10L-0021/00** Original Publication Data by Authority**Original Abstracts:**A control apparatus is provided for enabling a user to communicate by **speech** with **processor**-controlled apparatus **(1)** having a **display (44)** for displaying screens to a user, an **audio** input **(42)** for receiving **speech** data from the user and a pointing device **(40)** for providing data for enabling the screen location at which the user's attention is directed to be determined. The control apparatus has a screen data provider **(100)** providing screen data for a **display** screen, the screen data including access data, location data defining a location within the screen associated with the access data and speech input data for assisting a user in formulating a spoken command or commands to initiate use of the access data; a screen data displayer **(100)** for causing the **display (44)** to **display** a screen representing the screen data to the user; a location determiner **(100)** for determining from position data provided by the position data provider the... ... A control apparatus controls the **display** of text data which includes a speech link that can be activated by spoken command. The shape of a pointing device cursor displayed on a **display** is then changed by the apparatus when the pointing device cursor is located over the speech link included in displayed text data. The apparatus is... ... to output a prompt identifying speech commands that can be used to activate the speech link if the pointing device cursor is displayed on a **display** located over the speech link in a changed state for a predetermined time. **Claims:1**. Control apparatus for enabling a user to communicate by **speech** with **processor**-controlled apparatus having a **display** for displaying screens to a user, an **audio** input means for receiving **speech** data from the user and a position data providing means for providing data for enabling the screen location at which the user's attention is directed to be determined, the control apparatus comprising:screen data providing means providing screen data for a **display** screen, the screen data including access data, location data defining a location within the screen associated with the access data and speech input data for enabling a user to formulate a spoken command or commands to initiate use of the access data;screen data **display** control means for causing the **display** to **display** a screen representing the screen data to the user;location determining means for determining from position data provided by the position data providing means the... ... The invention claimed is:1. A control apparatus for enabling a user to communicate by **speech** with a **processor**-controlled apparatus, comprising: **display** control means for controlling a **display** of **text** data which includes a **speech** link that can be activated by a spoken command;cursor control means for changing a shape of a pointing device cursor displayed on a **display** when the pointing device cursor is located over the speech link; andprompt output means for outputting a prompt identifying speech commands that can be used to activate the speech link when the pointing device cursor is displayed on the **display** in a changed state for a predetermined time located over the speech link.

13/3,K/7 (Item 7 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0013344622 *Drawing available*
WPI Acc no: 2003-432359/200341
XRPX Acc No: N2003-345134
Speech input system for searching information using portable terminal, has speech portal server that recognizes speech input from portable terminal as common and object text for searching information
Patent Assignee: HITACHI LTD (HITA); KAMIWAKI T (KAMI-I); KUZUNUKI S (KUZU-I); MORIOKA M (MORI-I); OHTSUJI S (OHTS-I) ; OKUDE M (OKUD-I)
Inventor: KAMIWAKI T; KUZUNUKI S; MORIOKA M; OHTSUJI S; OKUDE M; OTSUJI S

Patent Family (10 patents, 28 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1300828	A2	20030409	EP 20023448	A	20020214	200341	B
JP 2003115929	A	20030418	JP 2001306787	A	20011002	200341	E
US 20030074199	A1	20030417	US 200283636	A	20020227	200341	E
US 20030074200	A1	20030417	US 200283636	A	20020227	200341	E
			US 2002192317	A	20020711		
US 20040199394	A1	20041007	US 200283636	A	20020227	200466	E
			US 2002192317	A	20020711		
			US 2004823552	A	20040414		
US 20050149332	A1	20050707	US 200283636	A	20020227	200547	E
			US 2002192317	A	20020711		
			US 2004823552	A	20040414		
			US 200560390	A	20050217		
US 6944593	B2	20050913	US 200283636	A	20020227	200560	E
			US 2002192317	A	20020711		
US 7058579	B2	20060606	US 2002192317	A	20020711	200638	E
			US 200483636	A	20040227		
			US 2004823552	A	20040414		
JP 3997459	B2	20071024	JP 2001306787	A	20011002	200771	E
US 7299186	B2	20071120	US 200283636	A	20020227	200778	E
			US 2002192317	A	20020711		
			US 200560390	A	20050217		

Priority Applications (no., kind, date): JP 2001306787 A 20011002

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 1300828	A2	EN	30	28		

Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
JP 2003115929	A	JA	21			
US 20030074200	A1	EN			Continuation of application	US 200283636
US 20040199394	A1	EN			Continuation of application	US 200283636
					Continuation of application	US 2002192317
US 20050149332	A1	EN			Continuation of application	US 200283636
					Continuation of application	US 2002192317
					Continuation of application	US 2004823552
US 6944593	B2	EN			Continuation of application	US 200283636
US 7058579	B2	EN			Continuation of application	US 2002192317
					Continuation of application	US 200483636
JP 3997459	B2	JA	24		Previously issued patent	JP 2003115929
US 7299186	B2	EN			Continuation of application	US 200283636
					Continuation of application	US 2002192317
					Continuation of patent	US 6944593

Speech input system for searching information using portable terminal, has speech portal server that recognizes speech input from portable terminal as common and object text for searching information Alerting Abstract ...NOVELTY - A **speech** portal server (50) **recognizes** the **speech** input from a portable terminal (10) as **text**. The **recognized text** is separated into common **text** and object **text**. An application service provider (60) searches the information based on the separated command text and object text received from the speech portal server, and provides... ... ADVANTAGE - Optimal information is provided to the user by providing **speech** portal server for **recognizing** input **speech** for searching information from application service provider... **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G10L-011/00**... ...**G10L-021/00** Main ...**G10L-0015/00**... ...**G10L-0015/00**... ...**G10L-0015/22**... ...**G10L-0015/28**... ...**G10L-0021/00** ...**G10L-0015/00**... ...**G10L-0015/00**... ...**G10L-0021/00**... ...**G10L-0021/00** Original Publication Data by Authority...**Original Abstracts:**through speech, and receiving a service from a provider for providing information, the speech input system comprises speech input/output mean, and an access status **display** mean, a **speech** portal server (50) provided with a **speech recognizing** mean to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean for having an access to, and receiving a service from a provider which provides different information based on the separated... ... information, and telephone information, the speech input system comprises speech input terminals **10, 30** provided with a speech input/output mean, and an access status **display** mean, a **speech** portal server **50** provided with a **speech recognizing** mean for receiving a **speech** to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean for having an access to, and receiving a service from a provider which provides different information based on the separated... ... information, and telephone information, the speech input system comprises speech input terminals **10, 30** provided with a speech input/output mean, and an access status **display** mean, a **speech** portal server **50** provided with a **speech recognizing** mean for receiving a **speech** to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean for having an access to, and receiving a service from a provider which provides different information based on the separated... ... information, and telephone information, the speech input system comprises speech input terminals **10, 30** provided with a speech input/output mean, and an access status **display** mean, a **speech** portal server **50** provided with a **speech recognizing** mean for receiving a **speech** to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean for having an access to, and receiving a service from a provider which provides different information based on the separated... information, and telephone information, the speech input system comprises speech input terminals **10, 30** provided with a speech input/output mean, and an access status **display** mean, a **speech** portal server **50** provided with a **speech recognizing** mean for receiving a **speech** to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean for having an access to, and receiving a service from a provider which provides different information based on the separated... ... information, and telephone information, the speech input system comprises speech input terminals **10, 30** provided with a speech input/output mean, and an access status **display** mean, a **speech** portal server **50** provided with a **speech recognizing** mean for receiving a **speech** to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean for having an access to, and receiving a service from a provider which provides different information based on the separated... ... information, and telephone information, the speech input system comprises speech input terminals **10, 30** provided with a speech input/output mean, and an access status **display** mean, a **speech** portal server **50** provided with a **speech recognizing** mean for receiving a **speech** to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean for having an access to, and receiving a service from a provider which provides different information based on the separated... ... information, and telephone information, the speech input system comprises speech input terminals **10, 30** provided with a speech input/output mean, and an access status **display** mean, a **speech** portal server **50** provided with a **speech recognizing** mean for receiving a **speech** to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean for having an access to, and receiving a service from a provider which provides different information based on the separated... **Claims:**A speech input system comprising:a speech input terminal provided with a speech input/output mean, a Web browser, and a **display** mean for displaying an access status to an external system and a search result;a **speech** portal server provided with a **speech recognizing** mean for receiving a **speech** from said **speech** input terminal to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean; andthe application service provider which is provided with an information search mean for searching information based on the command... ... is claimed is;**1**. A speech input system comprising:a speech input terminal provided with a speech input/output mean, a Web browser, and a **display** mean for displaying an access status to an external system and a search result;a **speech** portal server provided with a **speech recognizing** mean for receiving a **speech** from said **speech** input terminal to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean; andthe application service provider which is provided with an information search mean for searching information based on the command... ... is claimed is:**1**. A speech input system comprising:a speech input terminal provided with a speech input/output mean, a Web browser, and a **display** mean for displaying an access status to an external system and a search result;a **speech** portal server provided with a **speech recognizing** mean for receiving a **speech** from said **speech** input terminal to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean; andthe application service provider which is provided with an information search mean for searching information based on the command... ... conversation between said speech input terminal and said application service provider based on the provided speech; wherein said speech portal server is provided withspeech **recognizing** means for receiving speech from said speech input terminal to recognize it as a **text**,command converting means for checking the **recognized text** with a command **text** dictionary, extracting a **command text** from the **recognized text**, and **determining** the **text** other than the extracted **command text** as an object **text** or conducting a morpheme **analysis** to remove postposition from the text other than the extracted **command** text and to **determine** it as the object text, andconversation control means for sending the separated command text and said object text to said application service provider, anda speech input/output mean, a Web browser, and a **display** mean for displaying an access status to an external system and a search result;a **speech** portal server provided with a **speech recognizing** mean for receiving a

speech from said **speech** input terminal to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean; andthe application service provider which is provided with an information search mean for searching information based on the command... ... different information; anda speech portal server which controls a conversation between said speech input terminal and said application service provider based on the provided **speech**, and is provided with a **speech recognizing** means for receiving a **speech** from said **speech** input terminal to **recognize** it as a **text** comprising **character** strings, a command converting means for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control means for sending the separated command text and object text to said application service provider, and providing said speech input terminal with information searched by said application service provider;wherein said **speech recognizing** means is provided with a connected **speech recognizing** means for **recognizing speech sound** in a sentence constructed with a succession of a plurality of words in a relatively longer **utterance**, a **word** speech **recognizing** means for **recognizing speech sound** in a relatively shorter **utterance** and a comprehensive **recognition** evaluating means for selecting either of **recognition** results of said two **recognizing** means based on a **speech** characteristic value provided as a threshold... ... conversation between said speech input terminal and said application service provider based on the provided speech; wherein said speech portal server is provided withspeech **recognizing** means for receiving speech from said speech input terminal to recognize it as a **text**,command converting means for checking the **recognized text** with a command **text** dictionary, extracting a **command text** from the **recognized text**, and **determining** the **text** other than the extracted **command text** as an object **text** or conducting a morpheme **analysis** to remove postposition from the text other than the extracted **command** text and to **determine** it as the object text, andconversation control means for sending the separated command text and said object text to said application service provider, and.. ... is claimed is:1. A speech input system comprising: a speech input terminal provided with a speech input/output mean, a Web browser, and a **display** mean for displaying an access status to an external system and a search result;a **speech** portal server provided with a **speech recognizing** mean for receiving a **speech** from said **speech** input terminal to **recognize** it as a **text**, a command converting mean for checking the **recognized text** with a command **text** dictionary, and separating it into a command **text** and an object **text**, and a conversation control mean; andan application service provider which is provided with an information search mean for searching information based on the command...

13/3,K/8 (Item 8 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0013172328 *Drawing available*
WPI Acc no: 2003-255441/200325
Related WPI Acc No: 1995-043782; 2002-381447; 2003-057581
XRPX Acc No: N2003-202600

Voice controlled computer interface for manipulating pointing device, digitizes and processes user utterances, to enable recognizer software to generate command string for operating system manipulation

Patent Assignee: LERNOUT & HAUSPIE SPEECHPRODUCTS (LERN-N)
Inventor: FIRMAN T R

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020178009	A1	20021128	US 1989370779	A	19890623	200325	B
			US 1992973435	A	19921109		
			US 1993165014	A	19931209		
			US 1994200886	A	19940223		
			US 1996665493	A	19960612		
			US 2002102047	A	20020320		

Priority Applications (no., kind, date): US 1989370779 A 19890623; US 1992973435 A 19921109; US 1993165014 A 19931209; US 1994200886 A 19940223; US 1996665493 A 19960612; US 2002102047 A 20020320

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20020178009	A1	EN	851	30	Continuation of application	US 1989370779
					Continuation of application	US 1992973435
					Continuation of application	US 1993165014
					Continuation of application	US 1994200886
					Continuation of application	US 1996665493
					Continuation of patent	US 5377303

Alerting Abstract ...NOVELTY - A **voice navigator** box (112) receives user **utterances** through a microphone (114) and digitizes and **processes** the signals such that the digital samples conform to small computer systems interface (SCSI) protocols. A recognizer software (120) runs on the operating system (132) to process the digitized signals to **generate** a **command** string (121) representing **commands** for **actions** to be taken or operating system manipulation. ... method for converting **voice utterances to commands**; method for **generating** a table for **aiding** conversion of

voice utterances; and method **for enabling** a user to create an instance in a formal language having strictly defined syntax... ... device, to control motion of a cursor on the computer screen and to indicate desired actions associated with the position of the cursor on the **display**. A user can easily control the graphical **interface** and can switch between voice utterances that correspond to commands for actions to be taken, and voice utterances that correspond to text strings to be... **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**G10L-0015/26** ...**G10L-0015/00** Original Publication Data by Authority**Original Abstracts:** Voice utterances are substituted for manipulation of a pointing device of the kind which is manipulated to control motion of a cursor on a computer **display** and to indicate **desired** actions associated with the position of the cursor on the **display**. Voiced utterances are **converted** to commands, expressed in a predefined command language, to be used by an operating system of a computer, by converting some voiced utterances into commands corresponding to actions to be taken by the operating system, and converting other voiced utterances into commands which carry associated text strings to be **used as** part of **text** being **processed** in **an** application **program** running under the operating system. A table is **generated** for aiding the **conversion** of voiced **utterances** to **commands** for **use** in **controlling** an operating system of a computer to achieve desired actions in an application program running under the operating system. ...**Claims:**for manipulation of a pointing device, the pointing device being of the kind which is manipulated to control motion of a cursor on a computer **display** and to indicate **desired** actions associated with the position of the cursor on the **display**, the cursor being **moved** and the desired actions being aided by an operating system in the computer in response to control signals received from the pointing device, the computer... ... system being separately responsive to control signals received from the keyboard in accordance with a predetermined format specific to the keyboard, the system comprising a **voice recognizer** for **recognizing** a voiced **utterance**, **and** an **interpreter** for converting **the** voiced **utterance** into control signals which will directly create **a** desired action aided by the operating system in the computer without first being converted into control signals expressed in the predetermined format specific to the...

13/3,K/9 (Item 9 from file: 350) Links
Fulltext available through: Order File History
Derwent WPIX

0012671534 *Drawing available*
WPI Acc no: 2002-521683/200256
Related WPI Acc No: 1997-395760
XRPX Acc No: N2002-412818
Control system for telephony system, reproduces stored message including identifier for identifying caller, using recognition result generated by speech recognition user interface
Patent Assignee: CANON KK (CANO)
Inventor: KEILLER R A; KEILLER R A C R C; TZIRKEL-HANCOCK E; TZIRKEL-HANCOCK E C R C; KEILLER C R C; TZIRKEL-HANCOCK C R

Patent Family (3 patents, 4 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1213707	A1	20020612	EP 1997300814	A	19970207	200256	B
			EP 200275354	A	19970207		
EP 1213707	B1	20060927	EP 199775354	A	19970207	200663	E

DE 69736751	E	20061109	DE 69736751	A	19970207	200675	E
			EP 200275354	A	19970207		

Priority Applications (no., kind, date): GB 19962699 A 19960209; GB 199614429 A 19960709; EP 199775354 A 19970207

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 1213707	A1	EN	74	41	Division of application	EP 1997300814
					Division of patent	EP 789349
Regional Designated States,Original	DE FR GB IT					
EP 1213707	B1	EN				
Regional Designated States,Original	DE FR GB IT					
DE 69736751	E	DE			Application	EP 200275354
					Based on OPI patent	EP 1213707

Control system for telephony system, reproduces stored message including identifier for identifying caller, using recognition result generated by speech recognition user interface Alerting Abstract ...NOVELTY - A control unit controls telephony system so as to reproduce a stored image, using the **recognition** result **generated** by a **speech recognition** user interface. The **message** is stored with an identifier, for identifying caller. The control unit displays a list of **message** to be reproduced upon the instruction to reproduce identified message. ... USE - For controlling telephony system using **speech recognition** system such as facsimile, telephone/printer, photocopier and human/machine interface... **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G10L-0015/12**... ...**G10L-0015/12**... ...**G10L-0015/12**... ...**G10L-0015/22**... ...**G10L-0015/22**... ...**G10L-0015/22** **G10L-0015/00**... ...**G10L-0015/00**... ...**G10L-0015/00**... ...**G10L-0015/00** Original Publication Data by Authority...**Original Abstracts:**by processing the reference patterns on the active list, and a new active list 205 is generated for the succeeding input pattern. The amount of **processing** required for each pattern on the active list is reduced by using a **pointer** which identifies the reference pattern which is the earliest in the sequence of patterns of the current reference signal listed on the new active list during the **processing** of a preceding dynamic programming path. In a second aspect, a **speech recognition** interface is used as a control system for a telephony system. **Claims:** A control system for controlling a telephony system, comprising: a **speech** recognition user interface for allowing a user to input speech commands for controlling the telephony system, said speech recognition user interface comprising: (i) means for receiving an input speech command; (ii) means for storing a plurality of reference word models; (iii) means for comparing the input **speech** command with the stored reference **word** models to **generate** a **recognition** result; and control means, responsive to the **recognition** result **generated** by said **speech recognition** user interface, for controlling the telephony system in accordance with the input **speech** command; wherein said control means controls the telephony system so as to reproduce a stored **message** using the **recognition** result **generated** by said **speech recognition** user interface; wherein said **message** is stored with an identifier for identifying the caller that has left the **message**; and wherein said control means is operable to **display** a list of messages to be reproduced upon instruction to reproduce the message identified by said identifier... ... A control system for controlling a telephony system, comprising: a **speech recognition** user interface (321) for allowing a user to input **speech** commands for controlling the telephony system, said **speech recognition** user interface comprising: (i) means (321) for receiving an input **speech** command;(ii) means (321) for storing a plurality of reference word models;(iii) means (321) for comparing the input speech **command** with the stored reference **word** models to **generate** a **recognition** result; andcontrol means (325, 331), responsive to the **recognition** result **generated** by said **speech recognition** user interface (321), for controlling the telephony system in accordance with the input **speech** command; wherein said control means (325, 331) is operable to control the telephony system so as to reproduce a stored **message** using the **recognition** result **generated** by said **speech recognition** user interface (321); wherein said **message** is stored with an identifier for identifying the caller that has left the **message**; and wherein said control means (325, 331) is operable to **display** a list of messages to be reproduced based on the **recognition** result **generated** by said **speech recognition** user interface (321) and the identifier, whereby the user is able to request, via said **speech recognition** user interface, the control means to replay messages from a particular caller...

13/3,K/10 (Item 10 from file: 350) Links
Fulltext available through: Order File History
Derwent WPIX

0012646256 *Drawing available*
WPI Acc no: 2002-495603/200253
XRPX Acc No: N2002-392167
Audio browsing system has converter that transforms command into page address so that analyzed user's voice can be displayed on browser based on converted page address
Patent Assignee: J DATA KK (JDAT-N)
Inventor: SASAKI K; SASAKI N

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 2002156991	A	20020531	JP 2000351126	A	20001117	200253	B

Priority Applications (no., kind, date): JP 2000351126 A 20001117

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 2002156991	A	JA	8	4	

Audio browsing system has converter that transforms command into page address so that analyzed user's voice can be displayed on browser based on converted page address
...NOVELTY - The system has a microphone (22) through which user's **voice** is input. A controller (12) has an analyzer (12) for **processing** the input **voice** of the user as a command. A converter (52) transforms the **command** into a page address so that the **analyzed** user's voice can be displayed on a browser based on the converted page address. **Title Terms** .../Index Terms/Additional Words:

DISPLAY; **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**G10L-0015/00**... ...**G10L-0015/28** ...**G10L-0015/00**

13/3,K/11 (Item 11 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0012436227 *Drawing available*
WPI Acc no: 2002-381447/200241
Related WPI Acc No: 1995-043782; 2003-057581; 2003-246891; 2003-255441
XRPX Acc No: N2002-298463
Voice controlled computer interface system has interpreter that converts voiced utterance into control signal to directly produce desired action by operating system in computer
Patent Assignee: LERNOUT & HAUSPIE BELGIAN CORP (LERN-N)
Inventor: FIRMAN T R

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020010582	A1	20020124	US 1989370779	A	19890623	200241	B
			US 1992973435	A	19921109		
			US 1993165014	A	19931209		
			US 1994200886	A	19940223		
			US 1995450776	A	19950525		
			US 1996674341	A	19960702		
			US 1997976908	A	19971124		
			US 2001783725	A	20010214		

Priority Applications (no., kind, date): US 1989370779 A 19890623; US 1992973435 A 19921109; US 1993165014 A 19931209; US 1994200886 A 19940223; US 1995450776 A 19950525; US 1996674341 A 19960702; US 1997976908 A 19971124; US 2001783725 A 20010214

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20020010582	A1	EN	284	30	Continuation of application	US 1989370779
					Continuation of application	US 1992973435
					Continuation of application	US 1993165014
					Division of application	US 1994200886
					Continuation of application	US 1995450776
					Continuation of application	US 1996674341
					Continuation of application	US 1997976908
					Continuation of patent	US 5377303

Alerting Abstract ...NOVELTY - A **voice recognizer** is provided to **recognize** a voiced **utterance**. An interpreter (130) converts the voiced **utterance** into control signal to directly produce a desired action by an operating system in a computer without being converted into control signals expressed in a... ... a voiced **utterance** converting method;and **a voice utterance** table **generating** method.**Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**G10L-0015/26** ...**G10L-0015/00** Original Publication Data by Authority**Original Abstracts:**Voice utterances are substituted for manipulation of a pointing device of the kind which is manipulated to control motion of a cursor on a computer **display** and to indicate **desired** actions associated with the position of the cursor on the **display**. Voiced utterances are **converted** to commands, expressed in a predefined command language, to be used by an operating system of a computer, by converting some voiced utterances into commands corresponding to actions to be taken by the operating system, and converting other voiced utterances into commands which carry associated text strings to be **used as** part of **text** being **processed in an** application **program** running under the operating system. A table is **generated** for aiding the **conversion** of voiced **utterances** to **commands** for **use** in **controlling** an operating system of a computer to achieve desired actions in an application program running under the operating system. ...**Claims:**for manipulation of a pointing device, the pointing device being of the kind which is manipulated to control motion of a cursor on a computer **display** and to indicate **desired** actions associated with the position of the cursor on the **display**, the cursor being **moved** and the desired actions being aided by an operating system in the computer in response to control signals received from the pointing device, the computer... ... system being separately responsive to control signals received from the keyboard in accordance with a predetermined format specific to the keyboard, the system comprisinga **voice recognizer** for **recognizing** a voiced **utterance**, **and**an **interpreter** for converting **the** voiced **utterance** into control signals which will directly create **a** desired action aided by the operating system in the computer without first being converted into control signals expressed in the predetermined format specific to the...

13/3,K/12 (Item 12 from file: 350) Links
Fulltext available through: Order File History
Derwent WPIX

0012315264 *Drawing available*
WPI Acc no: 2002-256827/200230
XRPX Acc No: N2002-198807
Voice control of server stored page capable of being downloaded for display on clients terminal, server has dictionaries associated with page download, client identifies relevant dictionary(s) and loads it/them into his terminal
Patent Assignee: INTERACTIVE SPEECH TECHNOLOGIES (INTE-N)
Inventor: DEWAVRIN A; GACHIE B

Patent Family (4 patents, 94 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001095087	A1	20011213	WO 2001FR1560	A	20010521	200230	B
AU 200162476	A	20011217	AU 200162476	A	20010521	200230	E
FR 2810125	A1	20011214	FR 20007359	A	20000608	200230	E
US 20020010585	A1	20020124	US 2001756418	A	20010108	200230	E

Priority Applications (no., kind, date): FR 20007359 A 20000608

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2001095087	A1	FR	33	8		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
AU 200162476	A	EN			Based on OPI patent	WO 2001095087

Voice control of server stored page capable of being downloaded for display on clients terminal, server has dictionaries associated with page download, client identifies relevant dictionary(s) and loads it/them into his terminal ...**Original Titles:**VOICE-OPERATED SYSTEM FOR CONTROLLING A PAGE STORED ON A SERVER AND CAPABLE OF BEING DOWNLOADED FOR **DISPLAY** ON A CLIENT DEVICE... **Alerting Abstract** ...NOVELTY - The server memory (1), holding the page, contains a dictionary for one or more vocal links including for each link an **audio voice** recording for **voice** control. The client terminal is designed to download into memory each page associated dictionary. The **voice recognition** system on the clients terminal (2) includes a program (E) which compares the **audio** recording corresponding to the **voice** command with the recording(s) of each associated page dictionary. ...terminal (2) which can exchange data with a remote server (1) via a telecommunication network (3). The system includes means (11,12) for recording a **voice** command given by the user, and **voice recognition** means which enable a recorded **voice command** to automatically **determine** and control the execution of an **action** associated with the **voice** command. The voice link has several voice command audio recordings one at least of which is a female voice recording and male voice recording. The server holds data identifying the associated dictionary(s). The client terminal detects the data at the moment of page **display** and when detected sends a request to the server so that the latter sends back to it the dictionary identified by the data... ...7 **processing** and **navigating** unit... ...E **speech recognition Title Terms** .../Index Terms/Additional Words: **DISPLAY**; **Class Codes** International Patent.Classification IPC Class Level Scope Position Status Version Date ...**G10L-0015/22** ...**G10L-0015/00** Original Publication Data by Authority...**Original Abstracts:**with a remote server **(1)** via a telecommunications network **(3)** and which, on the other hand, includes means **(11, 12)** permitting the recording of a **voice** command spoken by a user, and voice recognition means making it **possible, from** a recorded **voice command,** to **determine and command** automatically the execution of an **action associated with** this **voice command. The** server **(1)** has in its **memory**, in association with said page (page **(1)**.htm,. ..), at least one dictionary (page **(1)**.ias,. ..) of one or more voice links including for each voice... ... at least one audio recording of the voice command; the client device is capable of downloading into its memory each dictionary associated with the page, **and** the **voice recognition** means of the client device **(2)** comprise a **voice recognition** program (E) that is designed to **make a** comparison of the **audio** recording corresponding to the **voice** command **with the audio** recording or recordings of each dictionary associated with the page. ... ... voice-operated control of a page designed to be displayed on a client device (2), which can exchange data with a remote server (1) via **a**

telecommunication network (3), and which comprises means (11, 12) for recording a **voice** command spoken by a user, and **speech recognition** means enabling, from a recorded **voice command**, to determine and automatically control the execution of an **action associated** with said **voice** command. The **server (1)** comprises in storage, connected with **said page** (page (1).htm), at least a dictionary (page (1).**ias)** of one or **several** voice links comprising for each voice link at least an audio recording of the **voice** command; the client device is adapted to download in storage each dictionary associated with the **page**, and the **speech recognition means** of the client **device** (2) comprise a **speech recognition** programme (E) which is designed to carry out a comparison of the **audio recording corresponding** to the **voice** command with the **audio** recording(s) **of** each dictionary associated with the page. ... ... moyens (11, 12) permettant l'enregistrement d'une commande vocale prononcee par un utilisateur, et des moyens de reconnaissance vocale permettant, a partir d'une **commande** vocale enregistree, de **determiner** et de **commander** automatiquement l'execution d'une **action** associee a cette commande vocale. Le serveur (1) comporte en memoire, en lien avec ladite page (**page** (1).htm,), au **moins** un dictionnaire (**page** (1).ias,) d'un ou **plusieurs** liens vocaux comprenant pour chaque lien vocal au moins un enregistrement audio de la commande vocale; le dispositif client est apte a telecharger en memoire...**Claims:**hand, can exchange data with a remote server via a telecommunications network and which, on the other hand, includes means permitting the recording of a **voice** command spoken by **a** user, and **voice** recognition means making **it possible**, from a recorded **voice command,** to **determine and command** automatically **the** execution **of** an **action** associated with this **voice command,** characterised in that the server has in its memory, in association with said page, at least one dictionary of one or more voice links including... ... the voice command, in that the client device is capable of downloading into its memory each dictionary associated with the page, and in that the **voice recognition** means of **the client** device comprise a **voice recognition** program that **is designed** to make a comparison of the **audio** recording corresponding to **the voice** command with the **audio** recording or recordings **of** each dictionary associated with the page.

13/3,K/13 (Item 13 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0012257242 *Drawing available*
WPI Acc no: 2002-197344/200226
XRPX Acc No: N2002-149913
Voice activated navigation system for a vehicle can be operated using different languages
Patent Assignee: ALPINE ELECTRONICS INC (ALPN); ALPINE KK (ALPN); SATOH K (SATO-I)
Inventor: SATO K; SATOH K

Patent Family (8 patents, 28 countries)

Patent Number	**Kind**	**Date**	**Application Number**	**Kind**	**Date**	**Update**	**Type**
EP 1146316	A2	20011017	EP 2001302788	A	20010326	200226	B
JP 2001296882	A	20011026	JP 2000114244	A	20000414	200226	E
US 20010037203	A1	20011101	US 2001832645	A	20010411	200226	E
EP 1146316	B1	20050413	EP 2001302788	A	20010326	200525	E
DE 60109979	E	20050519	DE 60109979	A	20010326	200535	E

			EP 2001302788	A	20010326		
DE 60109979	T2	20060223	DE 60109979	A	20010326	200615	E
			EP 2001302788	A	20010326		
JP 3908437	B2	20070425	JP 2000114244	A	20000414	200730	E
US 7277846	B2	20071002	US 2001832645	A	20010411	200765	E

Priority Applications (no., kind, date): JP 2000114244 A 20000414; EP 2001302788 A 20010326

Patent Details

Patent Number	**Kind**	**Lan**	**Pgs**	**Draw**	**Filing Notes**	
EP 1146316	A2	EN	3	2		
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
JP 2001296882	A	JA	12			
EP 1146316	B1	EN				
Regional Designated States,Original	DE FR GB					
DE 60109979	E	DE			Application	EP 2001302788
					Based on OPI patent	EP 1146316
DE 60109979	T2	DE			Application	EP 2001302788
					Based on OPI patent	EP 1146316
JP 3908437	B2	JA	16		Previously issued patent	JP 2001296882

Alerting Abstract ...NOVELTY - A **speech recognition** unit (2) is used together with a language determining unit (3) to determine the language used by a **speaker**. The **navigation** system can **display** map information of the vicinity of the vehicle. Even when two languages are **mixed**, the unit can operate using the more frequently used language. The guiding **speech** from the unit will be **generated** using this language. ...2 **speech recognition** ... ...3 **speech recognition** dictionary storage unit **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G10L-015/00** ...**G10L-0013/00**... ...**G10L-0015/00**... ...**G10L-0015/00**... ...**G10L-0015/00**... ...**G10L-0015/10**... ...**G10L-0015/10**... ...**G10L-0015/28** ...**G10L-0013/00**... ...**G10L-0015/00**... ...**G10L-0015/00**... ...**G10L-0015/00** Original Publication Data by Authority**Original Abstracts:**A **navigation** system characterized by including **speech-recognition** devices 2 and 3 for performing **speech-recognition processing** on input **speech**, language determining devices 4 and 5 for determining a language used by a **speaker** of this input **speech** based on the contents of the input **speech recognized** by the **speech-recognition** devices 2 and 3, and **navigation processing** devices 6, 7, 8, 10, 11, 12, and 13 for performing a **navigation** operation corresponding to the language determined by the language determining devices 4 and 5... ... A **navigation** system includes a **speech-recognition** unit for performing **speech-recognition processing** on input **speech**.The system also includes a language-determining unit for determining the language of a **speaker** based on the contents of the input **speech** as **recognized** by the **speech-recognition** unit.The system further includes a **navigation-processing** unit for performing a vehicle-installed-type **navigation** operation corresponding to the language as determined by the language-determining unit... ... A **navigation** system includes a **speech-recognition** unit for performing **speech-recognition processing** on input **speech**. The system also includes a language-determining unit for determining the language of a

speaker based on the contents of the input **speech** as **recognized** by the **speech-recognition** unit. The system further includes a **navigation-processing** unit for performing a vehicle-installed-type **navigation** operation corresponding to the language as determined by the language-determining unit. **Claims:**A **navigation** system **characterized by** comprising:**speech-recognition** means 2 and 3 for performing **speech-recognition processing** on input **speech**;language determining means 4 and 5 for determining a language used by a **speaker** of this input **speech** based on the contents of said input **speech recognized** by said **speech-recognition** means 2 and 3; and**navigation processing** means 6, 7, 8, 10, 11, 12, and 13 for performing a **navigation** operation corresponding to said language determined by said language determining means 4 and 5... ... A **navigation** system comprising:**speech-recognition** means (2, 3) for performing **speech-recognition processing** on input **speech**; **characterized by**language determining means (4, 5) for determining a language used by a **speaker** of this input **speech** based on the contents of said input **speech recognized** by said **speech-recognition** means (2, 3); and**navigation processing** means (6, 7, 8, 10, 11, 12, 13) for performing a **navigation** operation corresponding to said language determined by said language determining means(4, 5... ... What is claimed is:**1**. A **navigation** system comprising:speech-**recognition** means for performing **speech-recognition processing** on input **speech** spoken by a **speaker**;language-determining means for determining what language said input **speech** is spoken in based on the contents of said input **speech** as **recognized** by said **speech-recognition** means; and**navigation-processing** means for performing a vehicle-installed-type **navigation** operation utilizing the language of a **speaker** as determined by said language-determining means... ... What is claimed is:1. A **navigation** system comprising: speech-recognition means for performing speech-**recognition processing** on input speech spoken by a **speaker**;language-determining means for determining a language in which said input **speech** is spoken based on the contents of said input **speech** as **recognized** by said **speech-recognition** means;**navigation-processing** means for performing a vehicle-installed-type **navigation** operation utilizing the language-as determined by said language-determining means;image **recognition** means for determining the contents of the **characters** included in an inputted image of a road sign; andan intersection guiding means for storing intersection records, **generating** an intersection guiding image corresponding to the specified language, and **generating** guiding **speech** data corresponding to the specified language;wherein each intersection record includes a plurality of intersection name strings in different languages; andwherein said **navigation-processing** means includes a guiding means for replacing the **characters**, whose contents are determined by said image **recognition** means, with other **characters** having substantially the same **meaning** in the language **determined** by said language-**determining** means, and for displaying characters or outputting speech.

13/3,K/14 (Item 14 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0010942352 *Drawing available*
WPI Acc no: 2001-564915/200163
XRPX Acc No: N2001-420590
Speech recognition method for activating a hyperlink of text information on Internet pages displayed to user, by determining respective phoneme sequences of corresponding determined hypertext of the hyperlink in text information
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: HOLLEY M; KUBESCH D

Patent Family (4 patents, 21 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001035390	A1	20010517	WO 2000EP10757	A	20001101	200163	B
EP 1145226	A1	20011017	EP 2000977453	A	20001101	200169	E
			WO 2000EP10757	A	20001101		
JP 2003514261	W	20030415	WO 2000EP10757	A	20001101	200328	E
			JP 2001537045	A	20001101		
US 6604076	B1	20030805	US 2000709261	A	20001109	200353	E

Priority Applications (no., kind, date): EP 1999890359 A 19991109

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2001035390	A1	EN	21	5		
National Designated States,Original	JP					
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
EP 1145226	A1	EN			PCT Application	WO 2000EP10757
					Based on OPI patent	WO 2001035390
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
JP 2003514261	W	JA	29		PCT Application	WO 2000EP10757
					Based on OPI patent	WO 2001035390

Speech recognition method for activating a hyperlink of text information on Internet pages displayed to user, by determining respective phoneme sequences of corresponding determined hypertext of the hyperlink in text information ...**Original Titles:SPEECH RECOGNITION** METHOD FOR ACTIVATING A HYPERLINK OF AN INTERNET PAGE... ...**Speech recognition** method for activating a hyperlink of an internet page... ...**SPEECH RECOGNITION** METHOD FOR ACTIVATING A HYPERLINK OF AN INTERNET PAGE **Alerting Abstract** DESCRIPTION - Hypertexts (HT(HL)) of hyperlinks (HL) are determined in the text information (TI), and corresponding phoneme sequences of the hypertexts. A spoken **command** is received from user which represents part of **determined** hypertext. A second phoneme sequence corresponding to spoken **command** is **determined** and hyperlink selected by user is **determined** by comparing the second and first phoneme sequences to activate selected hyperlink. One quality value is determined for each hypertext. AN INDEPENENT CLAIM is made... ... A **speech recognition** device for **controlling an** Internet **browser**, which is arranged **for** receiving **text** information containing a **hyperlink** of Internet page; A computer program product, which can be loaded directly into the internal memory of a digital computer and containing five software code... ... USE - For activating a hyperlink of an Internet page by **speech recognition** method or apparatus.ADVANTAGE - Invention provides improved **speech recognition** method and device and an improved **computer program** product**Title Terms** .../Index Terms/Additional Words: **DISPLAY**; **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G10L-015/28** Main ...**G10L-0015/00**... ...**G10L-0015/06**... ...**G10L-0015/08**... ...**G10L-0015/22**... ...**G10L-0015/28** ...**G10L-**

0015/00 Original Publication Data by Authority**Original Abstracts:** In a **speech recognition** method for **activating a** hyperlink (HL) of **text** information (TI) of **an** Internet page (8) displayed for a user, the method comprising the following steps: determining hypertexts (HT(HL)) of the hyperlinks (HL) in the text information (TI) shown and determining corresponding first phoneme sequences (PI1[HT(HL)]) of these hypertexts (HT(HL)) and receiving a spoken command (AS) from a **user** which represents at least part of a **determined** hypertext (HT(HL)), **and determining** a second phoneme **sequence** (PI2) corresponding to the spoken **command** (AS) and **determining the** hyperlink (HL) **selected** by the user by comparison of the **determined** second phoneme sequence (PI2) with determined first phoneme sequences (PI1[HT(HL)]) and activating the selected hyperlink (HL), where one quality value (QV) is determined... ... A **speech recognition** method is disclosed for activating a hyperlink **of an** Internet page. In particular the method comprises determining hypertexts of the hyperlinks in **text** information, **determining corresponding** first phoneme sequences of hypertexts, receiving a **spoken command** from a user, **determining** a second phoneme sequence **corresponding** to the spoken **command**, **determining** the hyperlink selected by the user using **the first** and second phoneme sequences, activating the selected hyperlink, where one quality value is determined for each hypertext when first phoneme sequences are determined and where... ... In a **speech recognition** method for activating a hyperlink (HL) of **text** information (TI) of an **Internet page** (8) displayed for a user, the method **comprising** the following steps: determining hypertexts (HT(HL)) of the hyperlinks (HL) in the text information (TI) shown and determining corresponding first phoneme sequences (PI1[HT(HL)]) of these hypertexts (HT(HL)) and **receiving** a spoken **command** (AS) from a user which represents at least part of a **determined** hypertext **(HT(HL))**, and **determining** a second phoneme sequence (PI2) corresponding to the **spoken command** (AS) and **determining the** hyperlink (HL) selected by the user by comparison of **the determined** second **phoneme** sequence (PI2) with **determined** first phoneme sequences (PI1[HT(HL)]) and activating the selected hyperlink (HL), where one quality value (QV) is determined for each hypertext (HT(HL)) when... ... informations textuelles (TI) presentees et la determination des premieres sequences correspondantes de phonemes (PI1[HT(HL)]) de ces hypertextes (HT(HL)) et la reception d'**une commande** vocale (CV) enoncee par un utilisateur qui represente au moins une partie d'un hypertexte **determine** (HT(HL)), **et la determination** d'une deuxieme sequence de phonemes (PI2) correspondant a la **commande** vocale (CV) **suivie** de la **determination** de **l**'hyperlien (HL) selectionne par l'utilisateur resultant de la comparaison **de** la deuxieme sequence de phonemes **determinee** (PI2) avec la premiere sequence de phonemes determinee (PI1[HT(HL)]) et l'activation de l'hyperlien selectionne (HL), dans laquelle une valeur de qualite... **Claims:** We claim: 1. A **speech recognition** method for activating a hyperlink **of text** information of an Internet page displayed **to** a user, the method comprising the following steps: determining hypertexts of the hyperlinks in the text information shown and determining corresponding first phoneme sequences of these hypertexts and **receiving** a spoken **command** from a user which represents at least part of a **determined** hypertext, and **determining** a second phoneme sequence corresponding to the **spoken command** and **determining** the **hyperlink** selected by the user by comparison of the **determined** second phoneme sequence **with determined** first phoneme sequences and activating the selected hyperlink, wherein one quality value is determined for each hypertext when first phoneme sequences corresponding to the hypertexts...

13/3,K/15 (Item 15 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0010424458 *Drawing available*
WPI Acc no: 2001-022968/200103
Related WPI Acc No: 2001-225707
XRPX Acc No: N2001-017850

Data processing system for enhancing human communication in hospital, communicates fields of translational records of language partition column, to user in accordance with client controls and current processing mode

Patent Assignee: JOHNSON W J (JOHN-I)
Inventor: JOHNSON W J

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6122606	A	20000919	US 1996763312	A	19961210	200103	B

Priority Applications (no., kind, date): US 1996763312 A 19961210

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 6122606	A	EN	39	26	

Alerting Abstract ...processing mode. Fields of another set of records of language partition column referenced by host partition index are communicated to user based on user invoked **display** buttons (116,118,120,122,124,126,128,130,132,134,136,138). DESCRIPTION - The data **processing** system has a set of client controls for **navigating** the user interface, **display** buttons (116,118,120,122,124,126,128,130,132,134,136,138), tabular translation rules unit, mode control unit, client media control unit and host media control unit. Reference of each record is associated to one of **display** buttons which are invoked by user. Each **display** button is an individual visible mechanical button distinguishable by physical touch without inadvertent invocation. The button includes a dedicated **display** unit integrally provided for dynamically displaying a number of purposes for manually invoking button. The tabular translation rules unit contains a number of translation member... ...has a number of translation records in correspondence with language partition columns. Each translation record contains a number of fields of completely constructed visual or **audible** representation of dialogue. The mode control unit selects a current **processing** mode of data **processing** system from several different user interface execution algorithms. The client media control unit maintains client partition index referencing one of the language partition columns. The... ...there is a reasonably predictable dialogue. Manages a personalized set of data through editing any of translation rules. Communication is enabled through the most simple **action**, such as pressing of a button. Provides a **learning** tool for people who want to sharpen their language skills, or sharpen skills on one or more other languages... ...116,118,120,122,124,126,128,130,132,134,136,138 **Display** buttons **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G10L-017/28** Main Original Publication Data by Authority**Claims:** A data **processing** system **for** enhancing human communications, comprising: a set of client controls for **navigating** the user interface **of** said data **processing** system; a plurality **of display** buttons, each button of said **plurality** of **display** buttons being an individual visible **mechanical** button distinguishable by physical touch without inadvertent invocation, wherein said button includes a dedicated **display** means integrated thereon for dynamically **displaying** a plurality of purposes for manually invoking said button, and wherein said button is capable of bearing a physical touch communication; tabular translation rules means... ... least one host partition index referencing a language partition column of said language partition columns; means for communicating to a user through said plurality of **display** buttons said plurality of fields for a set of first translation records of a language **partition** column referenced by said client partition index, in accordance with said client controls and said current processing mode; means for associating a reference of each record of said set of first translation records to a button of said plurality of **display** buttons; means for determining with said reference a selected translation record of said set of first translation **records** upon a user invoked button of said plurality of **display** buttons; and means for communicating to a user through said user invoked button said plurality of fields of a **second** translation record of the translation member row containing said selected translation record, said second translation record of a language partition column referenced by said host...

13/3,K/16 (Item 16 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0009648807 *Drawing available*
WPI Acc no: 1999-601145/199951
XRPX Acc No: N1999-443175
Dynamically generated speech grammar system for voice controlled web browser
Patent Assignee: INROAD INC (INRO-N)
Inventor: BROWN N G; PROFIT J H

Patent Family (2 patents, 82 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1999048088	A1	19990923	WO 1999US6072	A	19990319	199951	B
AU 199931045	A	19991011	AU 199931045	A	19990319	200008	E

Priority Applications (no., kind, date): US 199878937 P 19980320

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1999048088	A1	EN	34	6		
National Designated States,Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW					
AU 199931045	A	EN			Based on OPI patent	WO 1999048088

Dynamically generated speech grammar system for voice controlled web browser Alerting Abstract ...NOVELTY - A **speech** specific parser performs **interactive** control from a script describing a web page. A visual **speech** hint **generator** adds a visual **speech** hint to the web page script. A **speech** grammar compiler **generates** a **speech** grammar for each hyper link and visual control, which is translated into compiled **speech** grammar. DESCRIPTION - A grammar based **speech recognition** engine translates the **speech** grammar into a compiled **speech** grammar and determines a **speech** event from a **voice audio** input device. A rendering engine executes the speech event on a visual web page rendered from the modified web page script. An INDEPENDENT CLAIM is... ...DESCRIPTION OF DRAWINGS - The figure shows the flow diagram illustrating the **process** of displaying a web document and handling a **voice** command. **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G10L-0015/22**... ...**G10L-0015/26 G10L-0015/00**... Original Publication Data by Authority...**Original Abstracts:**implementing a voice-controlled Web browser program executing on a wearable computer is disclosed. A Web document is received (602) at the wearable computer, and **processed** to dynamically **generate a** speech grammar (**604**). The speech grammar is used **to recognize voice commands** (616) **at the** wearable computer. Alternatively, a Web document is precompiled at a server computer to **generate a speech** grammar, **and** the **speech** grammar is transmitted **with** its corresponding Web document to the wearable computer. The wearable computer provides three mechanisms for a user to navigate Web pages by the use of... ... mechanism,the user can speak the test of the hyperlink to activate the hyperlink (616). In a third mechanism, the user invokes a command to **display** a dialog window **having** a list of hyperlinks and their corresponding index values. The user can speak an index value or a hyperlink to activate the hyperlink (618...

13/3,K/17 (Item 17 from file: 350) Links
Fulltext available through: Order File History
Derwent WPIX

0009378080 *Drawing available*
WPI Acc no: 1999-312701/199926
Related WPI Acc No: 1997-425222
XRPX Acc No: N1999-233554
Electronic reading aid for the partially sighted and blind
Patent Assignee: ASCENT TECHNOLOGY INC (ASCE-N)
Inventor: GOLDBERG D A; SEARS J T

Patent Family (4 patents, 81 countries)

Patent Number	**Kind**	**Date**	**Application Number**	**Kind**	**Date**	**Update**	**Type**
WO 1999021122	A1	19990429	WO 1998US22392	A	19981022	199926	B
AU 199911148	A	19990510	AU 199911148	A	19981022	199938	E
US 6115482	A	20000905	US 199611561	P	19960213	200044	E
			WO 1997US2079	A	19970211		
			US 1997930156	A	19971009		
			US 199763135	P	19971022		
			US 199768713	P	19971229		
			US 1998176999	A	19981022		
EP 1050010	A1	20001108	EP 1998953891	A	19981022	200062	E
			WO 1998US22392	A	19981022		

Priority Applications (no., kind, date): US 199611561 P 19960213; WO 1997US2079 A 19970211; US 1997930156 A 19971009; US 199763135 P 19971022; US 199768713 P 19971229; US 1998176999 A 19981022

Patent Details

Patent Number	**Kind**	**Lan**	**Pgs**	**Draw**	**Filing Notes**	
WO 1999021122	A1	EN	37	10		
National Designated States,Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
AU 199911148	A	EN			Based on OPI patent	WO 1999021122
US 6115482	A	EN			Related to Provisional	US 199611561
					Continuation of application	WO 1997US2079
					C-I-P of application	US 1997930156
					Related to Provisional	US 199763135
					Related to Provisional	US 199768713
EP 1050010	A1	EN			PCT Application	WO 1998US22392
					Based on OPI patent	WO 1999021122
Regional Designated States,Original	BE CH DE DK ES FI FR GB GR IE IT LI NL SE					

Alerting Abstract...NOVELTY - An electronic reading aid (29) is mounted on top of a video **display** (31). The aid includes a camera (37) that has a field of view onto the printed material (33) to be read. The images obtained by the camera are transmitted to a computer (35) which extracts **text** and graphics information so that enhanced images can be displayed for the partially sighted. **Text** is also converted into **synthesized speech** (47) based on user **commands** that are **generated** by hand and finger gestures. **Audio** and tactile feedback is provided to the user. ...31 Video **display Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**G10L-0013/04** ...**G10L-0013/00** Original Publication Data by Authority...**Original Abstracts:**text to be read (37, 51), on which the user performs finger- and hand-based gestural commands, are input to a computer, which decodes the **text** images into their **symbolic** meanings through optical **character recognition** (55), and **further tracks** (57) the location and movement of the hand and fingers in order to interpret the gestural movements into their command meaning. In order to allow the user to select **text** and align printed **material**, feedback is provided to the user through **audible** and tactile means. **Through** a **speech synthesizer**, the **text is spoken audibly**. **For** users with **residual** vision, visual feedback (71) of magnified and image enhanced **text** is provided.Multiple **cameras** of the same or different fields of view can improve performance. In addition, alternative device configurations allow portable operation, including the use of cameras located... ... Images of the text to be read, on which the user performs fingerand hand-based gestural commands, are input to a computer, which decodes the **text** images into their **symbolic meanings** through optical **character recognition**, and further tracks **the location** and movement of the hand and fingers in order to interpret the gestural movements into their command meaning. In order to allow the user to select **text** and align printed material, **feedback** is provided to the user through **audible** and tactile means. Through **a speech synthesizer**, the **text** is **spoken audibly**. For **users** with residual **vision**, visual feedback of magnified and image enhanced **text** is provided. Multiple cameras **of** the same or different field of view can improve performance. In addition, alternative device configurations allow portable operation, including the use of cameras located on... ... text to be read (37, 51), on which the user performs finger- and hand-based gestural commands, are input to a computer, which decodes the **text** images into their **symbolic** meanings through optical **character recognition** (55), and further **tracks** (57) the location **and movement** of the hand and fingers in order to interpret the gestural movements into their command meaning. In order to allow the user to select **text** and align printed material, feedback is provided to **the** user through **audible** and tactile means. Through a **speech synthesizer**, the **text** is spoken **audibly**. For users **with residual** vision, **visual** feedback (71) **of** magnified and image enhanced **text** is provided.Multiple cameras of the same or **different** fields of view can improve performance. In addition, alternative device configurations allow portable operation, including the use of cameras located on worn platforms, such as eyeglasses (100), or on a fingertip system (123). The use of gestural commands is natural, allowing for rapid training and ease **of** use. The device also has application as an aid in **learning** to read, and for data input and image capture for home and business uses... **Claims:** A method for electronically reading text under **interactive** control by a user, the method comprising:obtaining a first digital image of at least a portion of the **text** to be read;**performing** symbology **recognition** on the first digital image;**capturing** a temporal sequence of digital images of user-**generated** spatial configurations of at least one **pointer**;**determining** a command signal from the temporal **sequence** of digital images;choosing a subset of the **recognized** symbology to read at a spatial location on the **text** to **be** read on the basis of the **determined command** signal;**feeding** back to the user the spatial location of **the chosen** subset to be read and the spatial location of at least one **pointer** relative to the **recognized text**, wherein the spatial location of the chosen subset **and** the **pointer** aids **the user** in selecting the **text** to be read; andconverting the **chosen** subset of **recognized** symbology into a **humanly** understandable version.

13/3,K/18 (Item 18 from file: 350) Links
Fulltext available through: Order File History
Derwent WPIX

0009252722 *Drawing available*
WPI Acc no: 1999-180305/199915
XRPX Acc No: N1999-132458
Voice recognition based document editing method in word processing, spreadsheet application
Patent Assignee: APPLIED VOICE RECOGNITION INC (VOIC-N)
Inventor: DOUGLAS H R

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5875429	A	19990223	US 1997859127	A	19970520	199915	B

Priority Applications (no., kind, date): US 1997859127 A 19970520

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 5875429	A	EN	13	8	

Voice recognition based document editing method in word processing, spreadsheet application **Original Titles:**Method and apparatus for editing documents through **voice recognition**. **Alerting Abstract** ...NOVELTY - **Voice recognizing** unit (46) of a data **processing** system with a CPU and a graphical **display**, receives words comprising a command portion and a target portion from user through microphone. The command portion and targets such as sentence, **word** or paragraph is **recognized** by the CPU and a numerical emblem is sequentially displayed at the **recognized** target positions. ...DESCRIPTION OF DRAWINGS - The figure shows portion of data **processing** system including **voice recognition** components... ...46 **Voice recognizing** unit **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**G10L-0015/22**... ...**G10L-0015/26** ...**G10L-0015/00** Original Publication Data by Authority**Original Abstracts:**The present invention provides a method and apparatus that places visual markers onto the **display** of a document **on** a graphical user interface. The visual markers assist in the navigation around the document by numbered artifacts. **Claims:Claim 6. A** display system for **displaying** visible artifacts in a document in a **data** processing system, the display system comprising:a. a central processing unit;b. a voice recognition unit to provide command input to the central processing unit... ... a graphical display to provide visible output from the central processing unit;d. the voice recognition unit providing means for receiving a voice order by **the voice** recognition unit, **the** voice order comprising **a** command portion and **a target** portion; ande. means within the **central** processing uniti. for parsing **the** command portion of **the** voice order **to determine** locations within the document of targets designated **by the** voice order;**ii**. for ascertaining **within** the document the location of each target determined by the step of parsing; andiii. for placing an artifact on **the** display at the location of each target ascertained.

13/3,K/19 (Item 19 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0008441805 *Drawing available*
WPI Acc no: 1997-023458/199703
XRPX Acc No: N1997-019456
Voice controlled video display for interactive appts. enabling hands-free operation - has device for recognising set if data links which connect documents for display on video screen, and compiler receives text from interpreter and produces corresp. codes which are merged with finite operation commands
Patent Assignee: AT & T IPM CORP (AMTT); LUCENT TECHNOLOGIES INC (LUCE)
Inventor: BROWN M K; BUNTSCHUH B M

Patent Family (9 patents, 6 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 747881	A2	19961211	EP 1996303839	A	19960529	199703	B
JP 8335160	A	19961217	JP 1996141254	A	19960604	199709	E
CA 2177865	A	19961206	CA 2177865	A	19960531	199714	E

US 5890123	A	19990330	US 1995460955	A	19950605	199920	E
CA 2177865	C	20010130	CA 2177865	A	19960531	200117	E
EP 747881	B1	20011219	EP 1996303839	A	19960529	200206	E
DE 69618082	E	20020131	DE 69618082	A	19960529	200216	E
			EP 1996303839	A	19960529		
ES 2166427	T3	20020416	EP 1996303839	A	19960529	200230	E
JP 3432076	B2	20030728	JP 1996141254	A	19960604	200351	E

Priority Applications (no., kind, date): EP 1996303839 A 19960529; US 1995460955 A 19950605

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 747881	A2	EN	7	2		
Regional Designated States,Original	DE ES FR GB					
JP 8335160	A	JA	7			
CA 2177865	A	EN				
CA 2177865	C	EN				
EP 747881	B1	EN				
Regional Designated States,Original	DE ES FR GB					
DE 69618082	E	DE			Application	EP 1996303839
					Based on OPI patent	EP 747881
ES 2166427	T3	ES			Application	EP 1996303839
					Based on OPI patent	EP 747881
JP 3432076	B2	JA	7		Previously issued patent	JP 08335160

Voice controlled video display for interactive appts. enabling hands-free operation... ...has device for recognising set if data links which connect documents for display on video screen, and compiler receives text from interpreter and produces corresp. codes which are merged with finite operation commands ...**Original Titles:**System and method for voice controlled video screen **display** ... ...System and method for voice controlled video screen **display** ... ...SYSTEM FOR MAKING VIDEO SCREEN **DISPLAY VOICE INTERACTIVE** TYPE... ...System and method for voice controlled video screen **display**. **Alerting Abstract** ...The system for providing **voice interaction** for a video screen **display** has as device for **recognising** a set of data links associated with the **display**. A device **recognises** voiced **utterances** corresponding to the data links and converts them to natural language **text**. ... ...An evaluator **analyses** the natural language **text** and converts it to programming **commands** for changing the screen **display** in response to the **recognised** data link **Title Terms** .../Index Terms/Additional Words: **DISPLAY**; **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**G10L-015/22**... ...**G10L-007/08**... ...**G10L-007/10** Main ...**G10L-015/00**... ...**G10L-003/00** Original Publication Data by Authority**Original Abstracts:**A system and method for a voice controlled video screen **display** system are provided. **The** voice controlled system is **useful** for providing "hands-free" **navigation** through various video **screen** displays such as the World Wide Web network and

interactive television displays. During **operation** of the system, language models are derived from incoming data in applications such as the World Wide Web network... ... A system and method for a voice controlled video screen **display** system are provided. The voice controlled system is **useful** for providing "hands-free" **navigation** through various video screen displays such as the **World** Wide Web network and **interactive** television displays. During operation of the system, language **models** are provided from incoming data in applications such as the World Wide Web network. **Claims:**1. A system for making a video screen **display voice interactive comprising**:
means for **recognizing** a set of **data** links associated with a video screen **display**;
means for **recognizing voiced utterances** corresponding to said **data** links **and** converting said voiced **utterances** into natural language **text**; and
means for evaluating natural **language text** received from said means for **recognizing** voiced **utterances** and converting said natural language **text to programming** commands for changing the video **screen display** in response to said **recognized** data link. ... ... A **voice-interactive** video screen **display** system comprising:means for identifying and interpreting a set of data links (104), each data link associated with visual **information concurrently** displayed on **a** video screen;means for **recognizing** voiced **utterances** (106) corresponding to the displayed visual information on said video screen and the associated data link, and **generating** corresponding natural language **text**, said visual information **having** been **displayed** prior to the voiced **utterances** being spoken; andmeans for evaluating said natural language **text** and converting **said** natural language **text to** programming **commands** (112) for changing the video screen display in **accordance** with said data link corresponding to said **recognized** voiced **utterances**.Systeme d'affichage d'ecran video a **interaction vocale** comprenant:un moyen pour identifier et interpreter un ensemble de liaisons de donnees (104), chaque liaison de donnees etant associee a des informations visuelles affichees simultanement sur un ecran video;un moyen pour reconnaitre **des enonces** voises (106) correspondant aux informations visuelles affichees sur ledit ecran video et a la liaison de donnees associee, et generer un texte en langage naturel... ... A **voice-interactive** video screen **display** system comprising:means for **recognizing** a set of data links, each data link associated with visual information concurrently displayed on a video scrcen;means for **recognizing** voiced ulterances corresponding to the displayed visual information on said video screen and the associated data link, and **generating** corresponding natural **language text**, said visual information having been **diplayed** prior to the voiced **utterances** being spoken; andmeans for evaluating said natural language text and converting said natural language **text** to **programming** commands for changing the video screen **display** in accordance with said data link corresponding to said **recognized** voiced **utterances.>**

13/3,K/20 (Item 20 from file: 350) Links
Fulltext available through: Order File History
Derwent WPIX

0008286095 *Drawing available*
WPI Acc no: 1997-395760/199737
Related WPI Acc No: 2002-521683
XRPX Acc No: N1997-329358
Pattern matching method with apparatus for speech recognition in telephony system - uses dynamic programming, defines active patterns and stores reference values, then updates cumulative values and propagates programming path using pointer which identifies earliest reference pattern on new active list
Patent Assignee: CANON KK (CANO); KEILLER R A (KEIL-I); TZIRKEL-HANCOCK E (TZIR-

I)
Inventor: ERI T; KEILLER A; KEILLER R A; ROBAATO A K; TZIRKEL-HANCOCK E

Patent Family (8 patents, 6 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 789349	A2	19970813	EP 1997300814	A	19970207	199737	B
JP 9244686	A	19970919	JP 199726970	A	19970210	199748	E
EP 789349	A3	19971112	EP 1997300814	A	19970207	199815	E
US 5960395	A	19990928	US 1997796420	A	19970206	199947	E
US 20020032566	A1	20020314	US 1997796420	A	19970206	200222	E
			US 1999359912	A	19990726		
EP 789349	B1	20020828	EP 1997300814	A	19970207	200264	E
			EP 200275354	A	19970207		
DE 69714880	E	20021002	DE 69714880	A	19970207	200273	E
			EP 1997300814	A	19970207		
US 7062435	B2	20060613	US 1997796420	A	19970206	200639	E
			US 1999359912	A	19990726		

Priority Applications (no., kind, date): GB 19962699 A 19960209; GB 199614429 A 19960709

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 789349	A2	EN	65			
Regional Designated States,Original	DE FR GB IT					
JP 9244686	A	JA	50	41		
EP 789349	A3	EN				
US 20020032566	A1	EN			Division of application	US 1997796420
					Division of patent	US 5960395
EP 789349	B1	EN			Related to application	EP 200275354
					Related to patent	EP 1213707
Regional Designated States,Original	DE FR GB IT					
DE 69714880	E	DE			Application	EP 1997300814
					Based on OPI patent	EP 789349
US 7062435	B2	EN			Division of application	US 1997796420
					Division of patent	US 5960395

Original Publication Data by Authority

13/3,K/21 (Item 21 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0007601016 *Drawing available*
WPI Acc no: 1996-218160/199622
XRPX Acc No: N1996-183128
Guidance device with voice command for word processors e.g. computers - has sound information issued from audio output such as speakers which issues voice commands generated through phonetic generator
Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU)
Inventor: YAMADA T

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 8082531	A	19960326	JP 1994217146	A	19940912	199622	B

Priority Applications (no., kind, date): JP 1994217146 A 19940912

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 8082531	A	JA	5	4	

Guidance device with voice command for word processors e.g. computers... ...has sound information issued from audio output such as speakers which issues voice commands generated through phonetic generator Alerting Abstract ...The device is assembled with an input (101) to control the cursor and pointer appearing on a **display** screen. A position detector (102,103) is furnished to detect the position of the cursor or pointer on the screen... ...to correspond to a position such as a tone and a voice. The correspondence is made through a phonetic control information memory (107). The tone, **voice**, etc. is formed by an installed phonetic **generator** (105). The **sound** information is issued through an **audio** output (111) such as a **speaker**. ... ...USE/ADVANTAGE - Facilitate guidance of **word processor** with **voice** command through addition of SUI environment (**Sound** User Interface) to **GUI** environment providing dynamic operation environment. **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**G10L-0013/00**... ...**G10L-0021/06** ...**G10L-0013/00**... ...**G10L-0021/00**

13/3,K/22 (Item 22 from file: 347) Links
Fulltext available through: Order File History
JAPIO
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07103748 **Image available**
INFORMATION PROCESSOR, PRINTER, PRINTING SYSTEM AND PRINTING METHOD

Pub. No.: 2001-331405 [JP 2001331405 A]
Published: November 30, 2001 (20011130)
Inventor: YOSHIKAWA NAOHIRO
Applicant: CANON INC

Application No.: 2000-150466 [JP 2000150466]
Filed: May 22, 2000 (20000522)
International Class: G06F-013/00; B41J-005/30; B41J-029/38; G06F-003/12; **G10L-015/00**

ABSTRACT

PROBLEM TO BE SOLVED: To provide an information **processor**, a printer, a printing system and a printing method for converting information regarding **speech** into **character** information in the case that the information regarding the speech is included in hyperlink information within a hypertext inputted through a network.

SOLUTION: At the time of displaying the hypertext inputted through the network 208 and a network interface part 207 by a browser 210 at a **display** part 202 and printing the hypertext in this printer 220, in the case that the information regarding the **speech** is included in the hyperlink information within the hypertext, a **speech recognition** part 205 converts the information regarding the **speech** into the **character** information and a printing **command generation** part 206 **generates** a printing **command** and transmits the **character** information to the printer 220.

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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1022570	web or (world adj wide adj web) or internet or website or (web adj server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 14:54
S2	169417	S1 and (voice or speech or audio)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 14:55
S3	19844	S2 and (voiceXML or ASR or TTS or (speech adj recogni$4) or (text with speech))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 14:56
S4	529	"I3" and (markup or (markup adj language) or HTML or XHTML or XML or WML or VoicXML)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 16:11
S5	1022570	web or (world adj wide adj web) or internet or website or (web adj server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 16:11
S6	169417	S5 and (voice or speech or audio)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 16:11
S7	19844	S6 and (voiceXML or ASR or TTS or (speech adj recogni$4) or (text with speech))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 16:11

S8	5591	S7 and (markup or (markup adj language) or HTML or XHTML or XML or WML or VoicXML)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 16:14
S9	2460	S8 and (GUI or (graphic$2 adj user adj interface) or SUI or (speech adj user adj interface) or (speech with graph$6 with (diaglog or interface or "multi-modal" or prompt$3)) or (voice with graph$6 with (dialog or interface or "multi-modal" or prompt)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 16:19
S10	2329	S9 and ((collection or group or system or body or community) with (control or input or prompt or scenario or module or display))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 16:22
S11	2359	S9 and ((collection or group or system or body or community or plurality) with (control or input or prompt or scenario or module or display))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 16:25
S12	352	S11 and (grammar with recogni$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 17:10
S13	6	"046131".ap.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/15 17:11
S14	1093	(speech adj recogni$4) and ((vocal adj tract) or formant or sonorant)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 12:31

EAST Search History

S15	115	S14 and (LPC with (cepstrum or cepstral))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 12:32
S16	75	S15 and (track$3 or target$3 or map$4 or trajectory)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 12:33
S17	75	S16 and (probabilit$3 or error or stochastic or HMM or model$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 12:35
S18	75	S17 and (residual or train$3 or vector or observation or feature or viterbi or simulat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 12:37
S19	75	S17 and (residual or train$3 or observation or feature or viterbi or simulat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 12:39
S20	73	S19 and parameter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:19
S21	6	"934376".ap.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/27 16:20